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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,801	09/23/2003	Winston Zonh Ho	4093	
7:	590 08/28/2006		EXAMINER	
Winston Zonh Ho			KISH, JAMES M	
14541 Langhill Drive Hacienda Heights, CA 91745			ART UNIT	PAPER NUMBER
_	·		3737	
			DATE MAILED: 08/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/668,801	HO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		James Kish	3737			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exten after 5 - If NO - Failur Any re	CRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period veron to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	N. mely filed n the mailing date of this communication ED (35 U.S.C. § 133).			
Status						
2a)☐ 3)☐	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr		is		
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)⊠	Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-22 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o on Papers The specification is objected to by the Examine The drawing(s) filed on 23 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	wn from consideration. r election requirement. er. are: a)⊠ accepted or b)□ obje drawing(s) be held in abeyance. Se ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121	(d).		
,	•	difficient Note the attached Office	e Action of form 1 10 102.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/23/03.	4) Interview Summar Paper No(s)/Mail (5) Notice of Informal 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6, 8-11, 16, 18-20 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Chan et al. (US Patent No. 6,175,759). Chan discloses a non-invasive multispectral energy system made up of a transilluminating radiating means that illuminates soft tissues that have been treated with a contrast agent (see Abstract). It is an object of the invention to provide a system for early detection of breast cancer and internal bleeding. A diode laser is used to illuminate the area of interest at wavelengths from a range between 750 nm and 1,000 nm. The preferred contrast agent is indocyanine green, or ICG (column 1, lines 36-51). A recommended dosage of ICG is 400 micrograms/kilogram, or 0.4 mg/kg (column 5, lines 60-62). It has been proven that is it possible to detect less than or equal to 5 grams of ICG through 2 cm of tissue (column 5, lines 21-26). The ICG in a tumor or blood pool will be excited by a 780 nm gallium arsenide diode laser. The fluorescent emission at the surface will be filtered at 835 nm before detection in the CCD camera (column 6, lines 1-4).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-5, 7, 14-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable solely over Chan et al. Chan discloses a non-invasive multispectral energy system made up of a transilluminating radiating means that illuminates soft tissues that have been treated with a contrast agent (see Abstract).). It is an object of the invention to provide a system for early detection of breast cancer and internal bleeding. A diode laser is used to illuminate the area of interest at wavelengths from a range between 750 nm and 1,000 nm. The preferred contrast agent is indocyanine green, or ICG (column 1, lines 36-51). A recommended dosage of ICG is 400 micrograms/kilogram, or 0.4 mg/kg (column 5, lines 60-62). It has been proven that is it possible to detect less than or equal to 5 grams of ICG through 2 cm of tissue (column 5, lines 21-26). The ICG in a tumor or blood pool will be excited by a 780 nm gallium arsenide diode laser. The fluorescent emission at the surface will be filtered at 835 nm before detection in the CCD camera (column 6, lines 1-4).

Claims 2-3, 12-13 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chan et al. in view of Haaland et al (US Patent No. 5,596,992).

Chan discloses a non-invasive multispectral energy system made up of a transilluminating radiating means that illuminates soft tissues that have been treated with a contrast agent. However, Chan does not explicitly disclose an optical fiber to deliver and detect the light used to illuminate the area of interest. Haaland teaches a fiber optic probe (see Figure 7) used to irradiate an area of interest. The received spectra are used to classify tissue types, such as cancerous tissue of the cervical or colorectal area (column 1, lines 59-62). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a fiber optic probe, such as that taught by Haaland, in the invention disclosed by Chan to provide a method for delivering and receiving light used for spectral analysis to and from the area of interest.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Kish whose telephone number is 571-272-5554. The examiner can normally be reached on $8:30 - 5:00 \sim Mon. - Fri.$

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMK

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